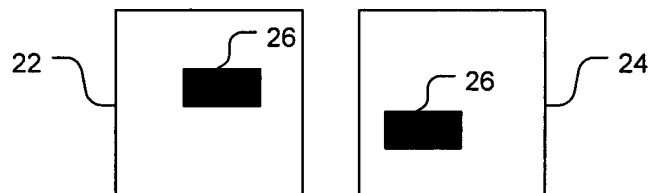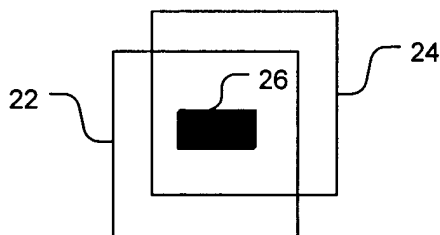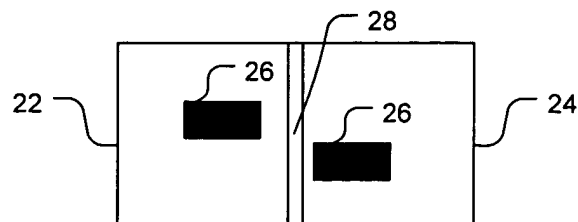Fig. 1

Fig. 2A

Fig. 2B

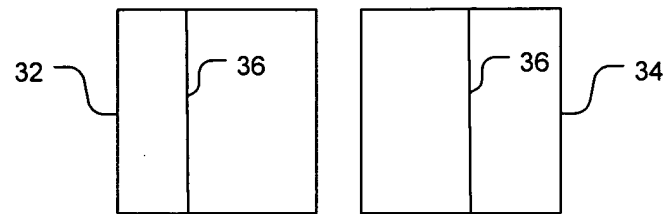
Fig. 2C

Fig. 3A
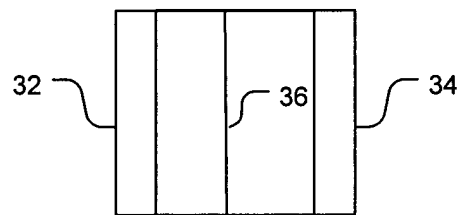
Fig. 3B
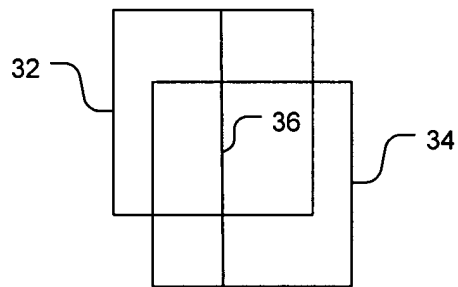
Fig. 3C
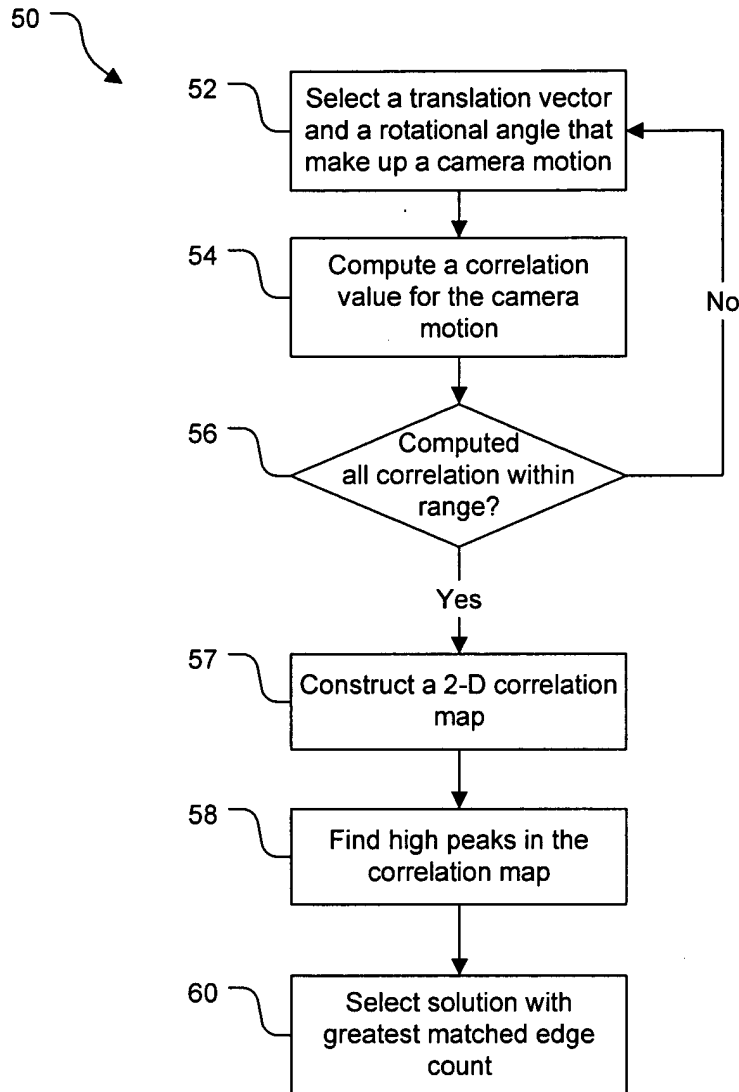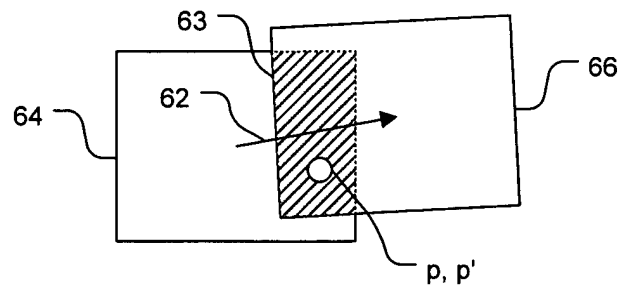
50

52 — Select a translation vector and a rotational angle that make up a camera motion

54 — Compute a correlation value for the camera motion

56 — Computed all correlation within range? — No

Yes

57 — Construct a 2-D correlation map

58 — Find high peaks in the correlation map

60 — Select solution with greatest matched edge count

Fig. 4

63

66

64

62

p, p'

Fig. 5

68

	-3	-2	-1	0	1	2	3
3	1	3	4	1	3	4	3
2	1	3	4	1	3	4	3
1	1	3	4	1	3	4	3
0	1	3	4	1	3	4	3
-1	1	3	4	1	3	4	3
-2	1	3	4	1	3	4	3
-3	1	3	4	1	3	4	3

Fig. 6

70

Initialize correlation value — 72

Select corresponding pixels — 74

Both pixels are edges? — 76 →Yes→ Increment the correlation value — 78

No

At least one pixel is an edge? — 80 →Yes→ Decrement the correlation value — 82

No

Last corresponding pixels? — 84

No

Yes

Store correlation value — 86

Fig. 7

90

Initialize matched edge count — 92

Select corresponding pixels — 94

Both pixels
are edges and Laplace
matching greater than
threshold? — 96

Increment
the matched edge count — 98

Yes

No

No

Last
corresponding
pixels? — 100

Yes

Store correlation value — 102

Fig. 8